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PERFORMANCE WORK STATEMENT

TSAWP IDIQ MULTIPLE-AWARD CONTRACT SOLICITATION PR-R2-14-00285

LAKE ONTARIO NEARSHORE WATERSHED NUTRIENT TOTAL MAXIMUM DAILY LOAD (TMDL) WORK

A. Background

The purpose of this Task Order is assist the government in reducing and limiting NPS phosphorus loading that are contributing to harmful algal blooms in the nearshore and further the development of non-toxic TMDLs in Great Lakes Priority Watersheds.

The College at Brockport State University of New York recently published 6 volumes as part of The Genesee River Project, conducted from August 2010 to August 2013. The project provides a detailed picture of sediment and phosphorus concentrations (e.g., weekly water chemistry sampling), nutrient loading, allocation and identification of phosphorus sources, and the effectiveness of management practices on the four major Genesee River tributaries (Canaseraga, Honeoye, Black, and Oatka Creeks), the Upper Genesee River, and the lower Genesee River.

- Volume 1: http://digitalcommons.brockport.edu/tech_rep/124/
- Volume 2: http://digitalcommons.brockport.edu/tech_rep/125/
- Volume 3: http://digitalcommons.brockport.edu/tech_rep/126/
- Volume 4: http://digitalcommons.brockport.edu/tech_rep/127/
- Volume 5: http://digitalcommons.brockport.edu/tech_rep/128/
- Volume 6: http://digitalcommons.brockport.edu/tech_rep/129/

The Lake Ontario Coastal Initiative published the following literature on Oak Orchard Creek:

- http://ceinfo.org/images/loci/tmdl/factsheets/LOCI_TMDL_OakOrchardCreek.pdf
- http://www.epa.gov/greatlakes/lakeont/reports/lo_oakorchard.pdf
- http://ceinfo.org/index.php/water/93-water-loci/water-past-work/120-tmdl-project-water-quality-restoration-strategy
- http://ceinfo.org/images/loci/tmdl/WQRS/WQRS_2011_Upper_Oak_Orchard_Creek_FI_NAL.pdf
- http://ceinfo.org/images/loci/tmdl/DataReports/Upper_OOC_Data_Report_FINL.pdf
 LOCI identified a number of agricultural "targets" as part of their project steps.

Beginning in 2012, the Monroe County Department of Environmental Services and the Stormwater Coalition of Monroe County, began work on a comprehensive Stormwater Master Plan. The goals of the Master Plan are to evaluate the status of the MS4 program and to develop a strategy for long term funding to advance and sustain the program. In 2013, staff at SUNY Brockport undertook a project to monitor and model sewer discharges from Rochester to the Genesee titled "The Impact of Rochester Storm Sewers on the Water quality of the Lower Genesee: a Modeling Approach using PCSWMM" (Dressel, Makarawicz 2014):

• http://digitalcommons.brockport.edu/env_theses/89/

As a result, the stormwater master plan will also contain a retrofit plan for both separate and combined sewers in the City of Rochester. This work includes conducting assessments of targeted watersheds to which some of the assessment and retrofit plans have been done by County Staff and currently Malcolm Pirnie/Arcadis is under contract to conduct four assessment/retrofit plans by the end of 2014. As another logical byproduct in 2013, a Green Infrastructure Rapid Assessment Plan was published for the Larkin Creek Watershed:

 http://www.monroecounty.gov/File/DES/Stormwater/Larkin%20Creek%20-%20Final%20Report.pdf

In 2008, EPA contractor support has also provided NYSDEC with draft TMDL documents for Honeoye Lake and Conesus Lake using the ArcView Generalized Watershed Loading Function (AVGWLF) watershed model in combination with the BATHTUB lake response model.

Other reports of interest include:

• http://www.epa.gov/greatlakes/lakeont/reports/lo_oakorchard.pdf

B. Tasks

SPECIAL POINTS OF INTEREST

All deliverables developed at any time in this Task Order must be provided to the Task Order COR in electronic formats that is supported (i.e. PDF) and can be edited (i.e. Word, Excel) by EPA. GIS data must be in ArcGIS format.

Electronic deliverables can be transmitted to EPA using a data CD, data DVD, USB flash drive, and/or an external USB drive.

All GIS and TMDL allocation deliverables will be accompanied by an electronic crosswalk table or GIS layer based on NHDPlus Version 2's NHDPlusCatchment layer. The NHDPlus Website for NHDPlus Version 2 can be found at: http://www.horizon-systems.com/NHDPlus/NHDPlusV2_data.php.

No duplication of work is requested.

The expression of loads in all the deliverables shall be in daily loads, unless otherwise indicated. The contractor is referred to the draft document entitled "Options for Expressing Daily Loads in TMDLs" dated June 22, 2007, for further technical guidance: http://water.epa.gov/lawsregs/lawsguidance/cwa/tmdl/upload/2007_06_26_tmdl_draft_daily_loads_tech-2.pdf.

Task 1: Oak Orchard Creek

A direct tributary to Lake Ontario which has been identified as a significant contributor of phosphorus to the nearshore area is Oak Orchard Creek. This creek is also listed as impaired. DEC Great Lakes staff are highly supportive of the development of a TMDL for this waterbody. SUNY Brockport has completed assessments of the Creek and thus some modeling and monitoring data exists. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task Order. The contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus. The contractor shall review the available reports and data for Oak Orchard Creek and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

The contractor shall submit all data (e.g. GIS, spreadsheets, model code, modeling inputs/outputs, etc.) to the TOCOR upon completion of the TMDL support deliverables. The data must also be accompanied by an inventory list describing the all data used.

The contractor shall provide all GIS data, including metadata files: Metadata shall be developed for project-generated GIS and shall accompany the GIS deliverables. Metadata shall be compliant with the "Content Standard for Digital Geospatial Metadata" approved by the Federal Geographic Data Committee (FGDC). Metadata compliance can be checked using the following tool: http://geo-nsdi.er.usgs.gov/validate.php

The contractor shall also prepare an electronic library of the administrative records containing documents that support the establishment of and calculations/allocations for each of the TMDL support document deliverables. Components of the record shall include all materials relied upon to develop and support the calculations/allocations in the TMDL, including any data, analyses, or scientific/technical references that were used, records of correspondence with stakeholders and EPA, the contractor's assistance to the TOCOR in responding to public comments, and other supporting materials. This record is needed to facilitate public and/or EPA review of the TMDL. The contractor can exclude copyrighted material from the electronic library, but must include the reference in the Index of the Administrative Record required of each of the TMDL support documents. Any material in the Index of the Administrative Record should be properly cited in the TMDL support document deliverables. Any references made in the TMDL support documents should be properly documented in its Index of the Administrative Record.

Optional Task 2: Honeoye Lake

Honeoya Lake is a class AA lake. Based upon available data, chl-a is around 17.9 ug/L, which is substantially higher than the endpoints being developed by NYSDEC staff to be supportive of the drinking water best use. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, 2008 AVGWLF/BATHTUB TMDL draft reports, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task Order. The contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus and "low dissolved oxygen". The contractor shall review the available reports and data for Honeoye Lake and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Update identification and quantification pollutant sources, such as land use.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

The contractor shall submit all data (e.g. GIS, spreadsheets, model code, modeling inputs/outputs, etc.) to the TOCOR upon completion of the TMDL support deliverables. The data must also be accompanied by an inventory list describing the all data used.

The contractor shall provide all GIS data, including metadata files: Metadata shall be developed for project-generated GIS and shall accompany the GIS deliverables. Metadata shall be compliant with the "Content Standard for Digital Geospatial Metadata" approved by the Federal Geographic Data Committee (FGDC). Metadata compliance can be checked using the following tool: http://geo-nsdi.er.usgs.gov/validate.php

The contractor shall also prepare an electronic library of the administrative records containing documents that support the establishment of and calculations/allocations for each of the TMDL support document deliverables. Components of the record shall include all materials relied upon to develop and support the calculations/allocations in the TMDL, including any data, analyses, or scientific/technical references that were used, records of correspondence with stakeholders and EPA, the contractor's assistance to the TOCOR in responding to public comments, and other supporting materials. This record is needed to facilitate public and/or EPA review of the TMDL. The contractor can exclude copyrighted material from the electronic library, but must include the reference in the Index of the Administrative Record required of each of the TMDL support documents. Any material in the Index of the Administrative Record should be properly cited in the TMDL support document deliverables. Any references made in the TMDL support documents should be properly documented in its Index of the Administrative Record.

Optional Task 3: Conesus Lake

A class AA lake. Chlorophyll-a concentrations are lower at 7.1 ug/L, but is still higher than the endpoint for drinking water. Cadmus also began work on this; we would like to see a final TMDL as well. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, 2008 AVGWLF/BATHTUB TMDL draft reports, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task OrderThe contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus and "low dissolved oxygen". The contractor shall review the available reports and data for Conesus Lake and complete the following:

• An early assessment to determine data gaps versus whether additional monitoring is required.

- Source identification and disaggregation by municipal boundaries for stormwater.
- Update identification and quantification pollutant sources, such as land use.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

The contractor shall submit all data (e.g. GIS, spreadsheets, model code, modeling inputs/outputs, etc.) to the TOCOR upon completion of the TMDL support deliverables. The data must also be accompanied by an inventory list describing the all data used.

The contractor shall provide all GIS data, including metadata files: Metadata shall be developed for project-generated GIS and shall accompany the GIS deliverables. Metadata shall be compliant with the "Content Standard for Digital Geospatial Metadata" approved by the Federal Geographic Data Committee (FGDC). Metadata compliance can be checked using the following tool: http://geo-nsdi.er.usgs.gov/validate.php

The contractor shall also prepare an electronic library of the administrative records containing documents that support the establishment of and calculations/allocations for each of the TMDL support document deliverables. Components of the record shall include all materials relied upon to develop and support the calculations/allocations in the TMDL, including any data, analyses, or scientific/technical references that were used, records of correspondence with stakeholders and EPA, the contractor's assistance to the TOCOR in responding to public comments, and other supporting materials. This record is needed to facilitate public and/or EPA review of the TMDL. The contractor can exclude copyrighted material from the electronic library, but must include the reference in the Index of the Administrative Record required of each of the TMDL support documents. Any material in the Index of the Administrative Record should be properly cited in the TMDL support document deliverables. Any references made in the TMDL support documents should be properly documented in its Index of the Administrative Record.

Optional Task 4: Hemlock Lake

Hemolock is AA(T) lake which is also a water supply reservoir for the City of Rochester. Hemlock is NOT currently listed on the 303(d) list but the drinking water use is listed as threatened on the state's Priority Waterbodies List. A TMDL developed for this lake will ensure this drinking water source remains unimpaired. Sampling data should be available, but EPA and NYSDEC are unaware of any other work completed for this waterbody. The contractor shall

consult all available sources of modeling and monitoring data which includes, but not limited to, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task OrderThe contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus. The contractor shall review the available reports and data for Hemlock Lake and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

The contractor shall submit all data (e.g. GIS, spreadsheets, model code, modeling inputs/outputs, etc.) to the TOCOR upon completion of the TMDL support deliverables. The data must also be accompanied by an inventory list describing the all data used.

The contractor shall provide all GIS data, including metadata files: Metadata shall be developed for project-generated GIS and shall accompany the GIS deliverables. Metadata shall be compliant with the "Content Standard for Digital Geospatial Metadata" approved by the Federal Geographic Data Committee (FGDC). Metadata compliance can be checked using the following tool: http://geo-nsdi.er.usgs.gov/validate.php

The contractor shall also prepare an electronic library of the administrative records containing documents that support the establishment of and calculations/allocations for each of the TMDL support document deliverables. Components of the record shall include all materials relied upon to develop and support the calculations/allocations in the TMDL, including any data, analyses, or scientific/technical references that were used, records of correspondence with stakeholders and EPA, the contractor's assistance to the TOCOR in responding to public comments, and other supporting materials. This record is needed to facilitate public and/or EPA review of the TMDL.

The contractor can exclude copyrighted material from the electronic library, but must include the reference in the Index of the Administrative Record required of each of the TMDL support documents. Any material in the Index of the Administrative Record should be properly cited in the TMDL support document deliverables. Any references made in the TMDL support documents should be properly documented in its Index of the Administrative Record.

Optional Task 5: City of Rochester GI assessments

Monroe County is proposing green infrastructure assessments for the City of Rochester. Planning is needed to properly site and design GI projects. Once build, GI projects would have a direct impact on phosphorus and pathogen loads to the lower Genesee River and the Rochester Embayment. The contractor shall complete assessments performing the same analysis applied as the report for Larkin Creek for the Lower Genesee River - see http://www.monroecounty.gov/File/DES/Stormwater/Larkin%20Creek%20-%20Final%20Report.pdf. A retrofit plan is needed for this very important waterbody. The Lower Genesee River is an 11.7 mile segment running north from the NYS Barge Canal to the mouth. It passes thru the City of Rochester, the largest population center in the watershed, with some 200,000 residents and a mix a commercial, residential, and industrial land use. The sewer collection system in Rochester is owned and operated by the Monroe County Department of Environmental Services. The collection system is a mix of combination and separate sewers. In the 1980's and early 1990's a deep rock tunnel system was constructed to collect combined sewer overflows and provide storage and conveyance to the Frank E. Van Lare Wastewater Treatment Plant. This combined sewer overflow abatement program (CSOAP) has been a huge success and has reduced pollutant loads to the Genesee and Lake Ontario.

The contractor shall submit a geospatial data QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task Order. The contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to G5/G (March 2003, EPA/240/R-03/003).

The contractor shall also produce a GIS layer illustrating the location of suggested infrastructure changes. The contractor shall provide all GIS data including metadata files: Metadata shall be developed for project-generated GIS and shall accompany the GIS deliverables. Metadata must be compliant with the "Content Standard for Digital Geospatial Metadata" approved by the Federal Geographic Data Committee (FGDC). Metadata compliance can be checked using the following tool: http://geo-nsdi.er.usgs.gov/validate.php

Optional Task 6: Great Lakes GIS support

The contractor shall submit a geospatial data QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task Order. The contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA

QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to G5/G (March 2003, EPA/240/R-03/003).

The contractor shall produce an electronic crosswalk table and GIS layer based on the following three sets of GIS coverages:

- 1. NHDPlus Version 2's NHDPlusCatchment layer;
- 2. NYS DEC's Waterbody Inventory Priority Waterbodies List (WIPWL):
 - a. https://catalog.data.gov/dataset/nysdec-wiwpl-rivers-and-streams-waterbody-inventory-and-priority-waterbodies-list-nys-wipw-8a108
 - b. http://catalog.data.gov/dataset/nysdec-wiwpl-lakes-and-reservoirs-waterbody-inventory-and-priority-waterbodies-list-nys-wi-eab3b
 - c. http://catalog.data.gov/dataset/nysdec-wiwpl-shorelines-waterbody-inventory-and-priority-waterbodies-list-nys-wipwl-shorel
 - d. http://catalog.data.gov/dataset/nysdec-wiwpl-estuaries-waterbody-inventory-and-priority-waterbodies-list-nys-wiwpl-estuary-7643b
- 3. Great Lake's watershed boundaries at http://water.usgs.gov/wsc/reg/04.html.

The contractor shall also produce a GIS layer that dissolves multiple NHDPlus catchments with the same WIPWL PWL ID values.

The contractor shall provide all GIS data including metadata files: Metadata shall be developed for project-generated GIS and shall accompany the GIS deliverables. Metadata must be compliant with the "Content Standard for Digital Geospatial Metadata" approved by the Federal Geographic Data Committee (FGDC). Metadata compliance can be checked using the following tool: http://geo-nsdi.er.usgs.gov/validate.php

C. Schedule Of Benchmarks & Deliverables

All deliverables developed at any time in this work must be provided to the TOCOR in electronic formats that can be supported (i.e. PDF) and can be edited (i.e. Word, Excel) by EPA. All electronic deliverables must also be in a format that can be supported by EPA after the end of the Reports must be of high quality and 508 complaint: Work must reflect a high level of technical proficiency and be clearly explained and documented. The contractor shall include a certification of 508 compliance with each final electronic deliverable (see Section G).

Base Year:

Task No.	Deliverable	Schedule
1	1.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of award. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
	1.2 TMDL deliverable	Draft deliverable within 10 months of award Final deliverable within 11 months of award

Task No.	Deliverable	Schedule
	1.3 Project Data	Final deliverable within 11 months of award
	1.4 Electronic Library	Final deliverable within 11 months of award
	2.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of exercise. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
2 (optional)	2.2 TMDL deliverable	Draft deliverable within 10 months of original TO award Final deliverable within 11 months of original TO award
	2.3 Project Data	Final deliverable within 11 months of original TO award
	2.4 Electronic Library	Final deliverable within <u>11</u> months of original TO award
	3.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of exercise. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
3 (optional)	3.2 TMDL deliverable	Draft deliverable within 10 months of original TO award Final deliverable within 11 months of original TO award
	3.3 Project Data	Final deliverable within 11 months of original TO award
	3.4 Electronic Library	Final deliverable within <u>11</u> months of original TO award
	4.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of exercise. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
4 (optional)	4.2 TMDL deliverable	Draft deliverable within 10 months of original TO award Final deliverable within 11 months of original TO award
	4.3 Project Data	Final deliverable within 11 months of original TO award
	4.4 Electronic Library	Final deliverable within 11 months of original TO award

Task No.	Deliverable	Schedule
4	5.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of exercise. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
5 (optional)	5.2 GI assessments	Draft deliverable within 10 months of original TO award Final deliverable within 11 months of original TO award
*	5.3 GIS Layer	Draft deliverable within 10 months of original TO award Final deliverable within 11 months of original TO award
6 (optional)	6.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of exercise. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
	6.2 GIS layers	Draft deliverable within 10 months of original TO award Final deliverable within 11 months of original TO award

D. Validation Of Section 508 Compliance Of Task Order Deliverables

The Contractor shall support the TOPO in conducting a "Final Deliverable Validation" to ensure compliance with Section 508 and the Federal Acquisition Regulations (FAR) related to "electronic and information technology (EIT) deliverables". The Contractor shall furnish certification, in writing, to the TOPO that the Contractor has complied with EPAAR Clause 1552.211-79 "Compliance with EPA Policies for Information Resources Management", including the requirement that all electronic and information technology (EIT) deliverables be Section 508 compliant in accordance with the policies referenced at http://www.epa.gov/accessibility/.

E. Notification Of Completion Of Task Order Deliverables

In the event the Task Order reaches thirty (30) days prior to the end of the Period of Performance in a given period, and the contractor assesses that the contractor will not be able to satisfactorily complete any of the benchmarks, milestones, or deliverables by the end of the Performance Period, the contractor shall notify the TOPO and the Contracting Officer (CO) immediately, in writing. Within five (5) business days of said notification, the TOPO, in coordination with the CO, will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO: draft deliverables, interim work products, and any necessary working files in an electronic format which is supported by EPA.

F. Contractor Identification

Contractor personnel shall always identify themselves as Contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency's official representative.

The Contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOPO.

G. Conference/Meeting Support Guidance

No individual event is anticipated to exceed \$20,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOPO of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per diem expenses, room charges for official business, audiovisual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorized to do so by the Contracting Officer.

H. Quality Assurance Surveillance Plan: Per contract requirements.

I. ATTACHMENTS:

Appendix A: Required Elements of a TMDL Support Document

APPENDIX A

Required Elements of a TMDL Support Document

- 1. Identification of Waterbody, Pollutant of Concern, Pollutant Sources, and Priority Ranking
 - A. Description of Waterbody and Background Information
 - B. Pollutant of Concern
 - C. Pollutant Sources
 - D. Priority Ranking
 - E. Expressing the TMDL through Surrogate Measures, if applicable
- 2. Description of the Applicable Water Quality Standards and Numeric Water Quality Target
- 3. Loading Capacity Linking Water Quality and Pollutant Sources
 - A. Loading Capacity
 - B. Cause-and-Effect Relationship between Numeric Target and Pollutant
 - C. Critical Condition(s)
- 4. Load Allocations (LAs)
- 5. Wasteload Allocations (WLAs)
- 6. Margin of Safety (MOS)
- 7. Seasonal Variation
- 8. Reasonable Assurance
- 9. Monitoring Plan to Track TMDL Effectiveness
- 10. Implementation Plan
- 11. Index of the Administrative Record

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CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED

EP-C-12-053/0005/001

PAGE 2

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NAME OF OFFEROR OR CONTRACTOR CADMUS GROUP, INC., THE

ITEM NO.	SUPPLIESISEAVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Reason for Modification : Supplemental Agreement		-	,-,	
	for work within scope		1 1		
	Period Of Performance End Date changed from 17-JUL-15 to 17-AUG-15	1	1		
	Total Amount for this Modification: -\$45,813.00			•	
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	Incremental Funded Amount changed: from \$150,515.00 to \$104,702.00				
	Maximum Potential Expiration Date changed to: 08/17/2015 CHANGES FOR LINE ITEM NUMBER: 1				*
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	accordance with attached Performance Work	1			
	Statement entitled, "Lake Ontario Nearshore				
	Watershed Nutrient Total Maximum Daily Load	1		1	
	(TMDL) Work". This task order award is a result of RFP PR-R2-14-00286.			9	
	Level of Effort: 2,632				
	The government will make provisional fixed fee payments on the basis of percentage of work			N.	
	completed. For CPFF-term-type task orders, percentage of work completed is the ratio of direct labor hours performed to the direct labor hours ordered, to Provide services in accordance with attached Performance Work Statement entitled, "Lake Ontario Nearshore Watershed Nutrient Total Maximum Daily Load (TMDL) Work". This task order award is a result of RFP				
	PR-R2-14-00286.				
	Level of Effort: 1,109	i.			
	The government will make provisional fixed fee payments on the basis of percentage of work completed. For CPFF-term-type task orders,	u)	28		*
. 1	percentage of work completed is the ratio of direct labor hours performed to the direct labor hours ordered.				
	Total Amount changed from \$150,515.00 to \$104,702.00				
	Obligated Amount for this modification: -\$45,813.00	3			
	Incremental Funded Amount changed from Continued				
Ì	8				
-			- 1		

CONTINUATION SHEET	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE OF		
	REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-C-12-053/0005/001	3	1	6

NAME OF OFFEROR OR CONTRACTOR CADMUS GROUP, INC., THE

(A)	SUPPLIES/SERVICES	QUANTIT		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	\$150,515.00 to \$104,702.00	1	1		
	End Date changed from 17-JUL-15 to 17-AUG-15		1 1	ŀ	
	CHANGES FOR DELIVERY LOCATION: R2		1 1		
	Amount changed from \$150,515.00 to \$104,702.00		1 1	ì	
	Delivery Location Code: R2		1 1		
	Region 2		I		
	US Environmental Protection Agency	1	1 1		
	290 Broadway		1 (1	
	NOTICE AND ACCUSED ACCUSED AND	·			
	New York NY 10007-1866 USA	L	1 1		
	Daymont	ļ	1 1		
	Payment:	1	11	1	
	RTP Finance Center		1 1	1	
	US Environmental Protection Agency	1		ĺ	
	RTP-Finance Center	ì	1 1		
	Mail Drop D143-02	1			
	109 TW Alexander Drive	1		i	
	Durham NC 27711		1 1		
	FOB: Destination				
	Period of Performance: 08/18/2014 to 08/17/2015	1	1		
	20 Maria 1800		1 1	į.	
	Change Item 0001 to read as follows (amount shown				
	is the total amount):		1		
0001	n-wid-		1 1	i	(b)(4)
OOL	Provide services in accordance with attached		1 1		(b)(4)
	Performance Work Statement entitled, "Lake		1		
ž.	Ontario Nearshore Watershed Nutrient Total		11		
	Maximum Daily Load (TMDL) Work". This task order				
	award is a result of RFP PR-R2-14-00286.		1 1	ľ	
	Level of Effort: 1,109	l		1	
			1 1	ū.	
	The government will make provisional fixed fee	Į.	1	j	
	payments on the basis of percentage of work	ì	1 1	1	
	completed. For CPFF-term-type task orders,		1		
	percentage of work completed is the ratio of	ł			
	direct labor hours performed to the direct labor	*	{	9	
	hours ordered.	j	etc.	ĺ	
		l			
	Accounting Info:		ł I	1	
	14-15-B-02N-202BJ7-2505-1402HE1157-001 BFY: 14				
	EFY: 15 Fund: B Budget Org: 02N Program (PRC):	ļ)	ĺ	
	202BJ7 Budget (BOC): 2505 DCN - Line ID:	İ			
	1402HE1157-001		1		•
	Funding Flag: Partial		1 1		
	Funded: -\$45,813.00			l.	
		-			
	In consideration of the modification agreed to				
	horein as complete equitable adjustments for the			8	
	Contractor's Proposal dated 6/29/2015 the	1			
	Continued				
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				1	
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7540-01-152-	ne*	<u> </u>			PTIONAL FORM \$36 (4-88)

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CONTINUATION SHEET	EP-C-12-053/0005/001	4		б

NAME OF OFFEROR OR CONTRACTOR . CADMUS GROUP, INC., THE

TEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)		UNIT PRICE	AMOUNT
(4)	Contractor hereby releases the Government from any and all liability under this task order for	(0)	(D)	(E)	(F)
9	further equitable adjustments attributable to such facts or circumstances giving rise to the				
	Performance Work Statement changes included in				,
	this modification. All other terms and conditions remain unchanged.				
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Section B - Supplies or Services/Prices was revised as follows.

! - Clauses was revised as follows.

Summary of Clause Changes:

Clause, 1552.211-73, is incorporated as follows:

Local Clauses 1552.211-73 LEVEL OF EFFORT - COST REIMBURSEMENT TERM CONTRACT (AUG 1995)(DEVIATION)

- (a) The Contractor shall perform all work and provide all required reports within the level of effort specified below. The Government will order 1,109 direct labor hours for the base period which represents the Government's best estimate of the level of effort required to fulfill these requirements.
- (b) Direct labor includes personnel such as engineers, scientists, draftsmen, technicians, statisticians, and programmers and not support personnel such as company management, typists, and key punch operators even though such support personnel are normally treated as direct labor by the Contractor. The level of effort specified in paragraph (a) includes Contractor, subcontractor, and consultant labor hours.
- (c) Under any circumstances, if the Government orders or the Contractor provides less than 90 percent of the level of effort specified for the base period or any optional period exercised, an equitable downward adjustment of the fixed fee, if any, for that period will be made. The Government may require the Contractor to provide additional effort up to 110 percent of the level of effort for any period until the estimated cost for that period has been reached. However, this additional effort shall not result in any increase in the fixed fee, if any. If this is a cost-plus-incentive-fee (CPIF) contract, the term "fee" in this paragraph means "base fee and incentive fee." If this is a cost-plus-award-fee (CPAF) contract, the term "fee" in this paragraph means "base fee and award fee."
- (d) If the level of effort specified to be ordered during a given base or option period is not ordered during that period, that level of effort may not be accumulated and ordered during a subsequent period.
- (e) These terms and conditions do not supersede the requirements of either the "Limitation of Cost" or "Limitation of Funds" clauses.

(end of clause)

Clause, EPA-B-16-102, is incorporated as follows:

Local Clauses EPA-B-16-102 ESTIMATED COST AND FIXED FEE

(a) The estimated cost of this contract is (b)(4)

(b) The fixed fee is (b)(4

(c) The total estimated cost and fixed fee is \$104,702.

Section F - Deliveries or Performance was revised as follows.

1 - Clauses was revised as follows.

Summary of Clause Changes:

Clause, EPA-F-12-101, is incorporated as follows:

Local Clauses EPA-F-12-101 PERIOD OF PERFORMANCE

The period of performance of this contract shall be from 8/18/2014 through 8/17/2015 inclusive of all required reports.

Section G - Contract Administration Data was revised as follows.

1 - Clauses was revised as follows.

Summary of Clause Changes:

Clause, EPA-G-42-101, is incorporated as follows:

Local Clauses EPA-G-42-101 CONTRACT ADMINISTRATION REPRESENTATIVES

Contracting Officials responsible for administering this contract are as follows:

Primary contact shall be FedConnect. CO: Noelle Milis 513-487-2171 mills.noelle@epa.gov

Contract Specialist: Katie Rechenberg 513-487-2853 rechenber.kathleen@epa.gov

PERFORMANCE WORK STATEMENT

TSAWP IDIQ MULTIPLE-AWARD CONTRACT SOLICITATION PR-R2-14-00285 MODIFICATION 001 PR-R2-15-00279

LAKE ONTARIO NEARSHORE WATERSHED NUTRIENT TOTAL MAXIMUM DAILY LOAD (TMDL) WORK

A. Background

B. Tasks

Task 1: Oak Orchard Creek

A direct tributary to Lake Ontario which has been identified as a significant contributor of phosphorus to the nearshore area is Oak Orchard Creek. This creek is also listed as impaired. DEC Great Lakes staff are highly supportive of the development of a TMDL for this waterbody. SUNY Brockport has completed assessments of the Creek and thus some modeling and monitoring data exists. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task Order. The contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus. The contractor shall review the available reports and data for Oak Orchard Creek and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and

o formation of a Citizens Advisory Committee.

The contractor shall produce a technical memorandum that described the contractor's findings and steps suggested to draft a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

Optional Task 2: Honeoye Lake

Honeoya Lake is a class AA lake. Based upon available data, chl-a is around 17.9 ug/L, which is substantially higher than the endpoints being developed by NYSDEC staff to be supportive of the drinking water best use. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, 2008 AVGWLF/BATHTUB TMDL draft reports, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task Order. The contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus and "low dissolved oxygen". The contractor shall review the available reports and data for Honeoye Lake and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Update identification and quantification pollutant sources, such as land use.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a technical memorandum that described the contractor's findings and steps suggested to draft a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

Optional Task 3: Conesus Lake

A class AA lake. Chlorophyll-a concentrations are lower at 7.1 ug/L, but is still higher than the endpoint for drinking water. Cadmus also began work on this; we would like to see a final TMDL as well. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, 2008 AVGWLF/BATHTUB TMDL draft reports, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task OrderThe contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus and "low dissolved oxygen". The contractor shall review the available reports and data for Conesus Lake and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Update identification and quantification pollutant sources, such as land use.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a technical memorandum that described the contractor's findings and steps suggested to draft a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

Optional Task 4: Hemlock Lake

Hemolock is AA(T) lake which is also a water supply reservoir for the City of Rochester. Hemlock is NOT currently listed on the 303(d) list but the drinking water use is listed as threatened on the state's Priority Waterbodies List. A TMDL developed for this lake will ensure this drinking water source remains unimpaired. Sampling data should be available, but EPA and NYSDEC are unaware of any other work completed for this waterbody. The contractor shall consult all available sources of modeling and monitoring data which includes, but not limited to, SUNY Brockport, USGS NWIS, EPA's STORET, SWCDs, NRCS, dischargers, and farms.

The contractor shall submit a modeling QAPP(s) as applicable to the activities requested in this task. The contractor may elect to develop either a combined QAPP under Task 1 or separate QAPPs for Task 1 and each of the optional Tasks, if exercised in this Task OrderThe contractor shall submit for review and approval the QAPP to the Task Order COR (TOCOR) and the EPA QA officer to be specified by the TOCOR. The contractor will allow a 30 day review period for EPA to evaluate draft and final QAPP deliverables. The QAPP shall conform to EPA G5/M (December 2002, EPA/240/R-02/007) and G5/G (March 2003, EPA/240/R-03/003).

The pollutant of concern is phosphorus. The contractor shall review the available reports and data for Hemlock Lake and complete the following:

- An early assessment to determine data gaps versus whether additional monitoring is required.
- Source identification and disaggregation by municipal boundaries for stormwater.
- Re-characterization of phosphorus loads from WWTPs and alternatives to an "all or nothing" approach of restoration scenarios.
- A comprehensive implementation plan including the nine elements that must be addressed in 319 watershed plans.
- Monthly reports to assess progress and conference calls when needed.
- Support the engagement and integration activities of EPA and NYSDEC which may include:
 - o coordination with SWCDs, NRCS, dischargers, and farms; and
 - o formation of a Citizens Advisory Committee.

The contractor shall produce a technical memorandum that described the contractor's findings and steps suggested to draft a TMDL support document that meets regulatory requirements for a TMDL as specified in Appendix A of this Task Order.

Optional Task 5: City of Rochester GI assessments

Optional Task 6: Great Lakes GIS support

To the extent that any level of effort remains in this task by June 2015, the contractor will not work on this task further.

C. Schedule Of Benchmarks & Deliverables

All deliverables developed at any time in this work must be provided to the TOCOR in electronic formats that can be supported (i.e. PDF) and can be edited (i.e. Word, Excel) by EPA. All electronic deliverables must also be in a format that can be supported by EPA after the end of the Reports must be of high quality and 508 complaint: Work must reflect a high level of technical proficiency and be clearly explained and documented. The contractor shall include a certification of 508 compliance with each final electronic deliverable (see Section G).

Base Year (to be extended to 08/17/2015):

Task No.	Deliverable	Schedule
1	1.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of award. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
	1.2 Technical Memorandum 1.3	Deliverable within 12 months of award
	1.4	- ANALYSIS CONTRACTOR OF THE C
2	2.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of award. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
	2.2 Technical Memorandum	Deliverable within 12 months of award
	2.3	
	2.4	
3	3.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of award. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
3	3.2 Technical Memoradum	Deliverable within 12 months of award
	3.3	
	3.4	
4	4.1 QAPP	Submission of Draft QAPP for review and approval within 30 calendar days of award. Submission of Final QAPP with contractor signatures that incorporates EPA QA Officer comments with 14 calendar days of receipt of EPA QA Officer's comments.
-	4.2 Technical Memorandum	Deliverable within 12 months of award
	4.3	
	4.4	

Task No.	Deliverable	Schedule
5	5.1 GI assessments	Draft deliverable within 10 months of award Final deliverable within 11 months of award
	5.2 GIS Layer	Draft deliverable within 10 months of award Final deliverable within 11 months of award
6	6.1 GIS layers	LOE ending May 2015.

D. Validation Of Section 508 Compliance Of Task Order Deliverables

The Contractor shall support the TOPO in conducting a "Final Deliverable Validation" to ensure compliance with Section 508 and the Federal Acquisition Regulations (FAR) related to "electronic and information technology (EIT) deliverables". The Contractor shall furnish certification, in writing, to the TOPO that the Contractor has complied with EPAAR Clause 1552.211-79 "Compliance with EPA Policies for Information Resources Management", including the requirement that all electronic and information technology (EIT) deliverables be Section 508 compliant in accordance with the policies referenced at http://www.epa.gov/accessibility/.

E. Notification Of Completion Of Task Order Deliverables

In the event the Task Order reaches thirty (30) days prior to the end of the Period of Performance in a given period, and the contractor assesses that the contractor will not be able to satisfactorily complete any of the benchmarks, milestones, or deliverables by the end of the Performance Period, the contractor shall notify the TOPO and the Contracting Officer (CO) immediately, in writing. Within five (5) business days of said notification, the TOPO, in coordination with the CO, will provide technical direction concerning use of the remaining funding to prepare and furnish to the TOPO: draft deliverables, interim work products, and any necessary working files in an electronic format which is supported by EPA.

F. Contractor Identification

Contractor personnel shall always identify themselves as Contractor employees by name and organization and physically display that information through an identification badge. Contractor personnel are prohibited from acting as the Agency's official representative.

The Contractor shall refer any questions relating to the interpretation of EPA policy, guidance, or regulation to the TOPO.

G. Conference/Meeting Support Guidance

No individual event is anticipated to exceed \$20,000. The contractor shall immediately notify the EPA Contracting Officer, PO and TOPO of any anticipated event involving support for a meeting, conference, workshop, symposium, retreat, seminar or training that may potentially incur \$20,000 or more in cost during performance. Conference expenses are all direct and indirect costs paid by the government and include any associated authorized travel and per diem expenses, room charges for official business, audiovisual use, light refreshments, registration fees, ground transportation and other expenses as defined by the Federal Travel Regulations. All outlays for conference preparation should be included, but the federal employee time for conference preparation should

not be included. After notifying EPA of the potential to reach this threshold, the Contractor shall not proceed with the task(s) until authorized to do so by the Contracting Officer.

H. Quality Assurance Surveillance Plan: Per contract requirements.

I. ATTACHMENTS:

Appendix A: Required Elements of a TMDL Support Document

APPENDIX A

Required Elements of a TMDL Support Document

- 1. Identification of Waterbody, Pollutant of Concern, Pollutant Sources, and Priority Ranking
 - A. Description of Waterbody and Background Information
 - B. Pollutant of Concern
 - C. Pollutant Sources
 - D. Priority Ranking
 - E. Expressing the TMDL through Surrogate Measures, if applicable
- 2. Description of the Applicable Water Quality Standards and Numeric Water Quality Target
- 3. Loading Capacity Linking Water Quality and Pollutant Sources
 - A. Loading Capacity
 - B. Cause-and-Effect Relationship between Numeric Target and Pollutant
 - C. Critical Condition(s)
- 4. Load Allocations (LAs)
- 5. Wasteload Allocations (WLAs)
- 6. Margin of Safety (MOS)
- 7. Seasonal Variation
- 8. Reasonable Assurance
- 9. Monitoring Plan to Track TMDL Effectiveness
- 10. Implementation Plan
- 11. Index of the Administrative Record